

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080114 A1

NCB-141-A

(51) International Patent Classification⁷: B60K 15/03, 15/07

(21) International Application Number: PCT/JP2005/003251

(22) International Filing Date: 22 February 2005 (22.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-047852 24 February 2004 (24.02.2004) JP

(71) Applicant (for all designated States except US): HONDA MOTOR CO., LTD. [JP/JP]; 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WATANABE, Hideo [JP/JP]; c/o Honda R & D Co., Ltd., 4-1, Chuo 1-chome, Wako-shi, Saitama 3510193 (JP). KUROKI, Morio [JP/JP]; c/o Honda R & D Co., Ltd., 4-1, Chuo 1-chome, Wako-shi, Saitama 3510193 (JP).

(74) Agents: OGURI, Shohei et al.; Eikoh Patent Office, 13th Floor, ARK Mori Building, 12-32, Akasaka 1-chome, Minato-ku, Tokyo 1076013 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

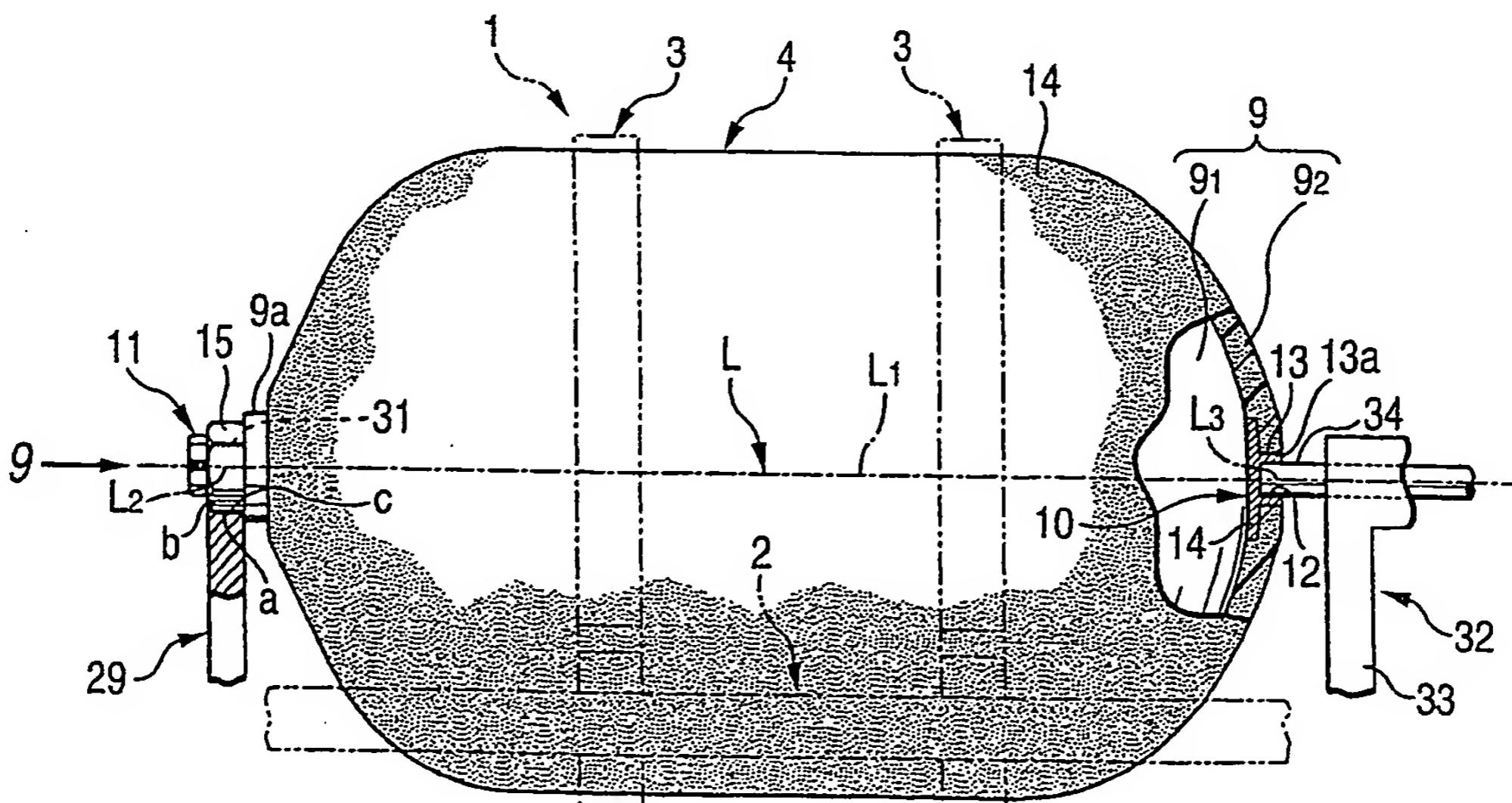
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: ON-BOARD GASEOUS FUEL TANK MODULE



WO 2005/080114 A1

(57) Abstract: An on-board gaseous fuel tank module (1) includes: a support frame member (2); and a gaseous fuel tank (4) fixed to the support frame member (2) horizontally. The gaseous fuel tank (4) includes: a cylindrical tank complete unit (9), a gaseous fuel inlet and outlet valve device (11) provided at an axial end portion of the tank complete unit (9) such that a part thereof protrudes outwardly from the tank complete unit (9), and a pin hole (12) provided in the other axial end portion of the tank complete unit (9) so as to open outwardly. An axis (L1) of the tank complete unit (9), an axis (L2) of the part of the valve device (11) and a center line (L3) of the pin hole (12) are disposed on a single straight line (L) so that the part of the valve device (11) and the pin hole (12) are used to position the gaseous fuel tank (4) horizontally.